

Operating Instructions Busch-Infoline®

1563 U
Busch warning signal insert



1564 U
Light signal insert



Operating Instructions

Busch-InfoLine®

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1 Safety



Warning

Electric voltage!

Risk of death and fire due to electrical voltage of 230 V.

- Work on the 230V supply system may only be performed by authorised electricians!
- Disconnect the mains power supply prior to installation and/or disassembly!



Warning

High sound pressure level!

High sound pressure level of 70 dB at a distance of 1 m. Problems with concentration are possible in this area.

- Safety distance must be adhered to!

2 Intended use

The device is to be used exclusively with the components that are supplied and licensed as described in chapter "Setup and function".

3 Environment



Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with domestic waste.

- The device contains valuable raw materials which can be recycled. Therefore, dispose of the device at the appropriate collecting depot.

All packaging materials and devices bear the markings and test seals for proper disposal. Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.

The products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU Directive 2002/96/EC WEEE and 2002/95/EC RoHS)

(EU REACH ordinance and law for the implementation of the ordinance (EC) No.1907/2006)

4 Technical data

General

Nominal voltage	9.5 - 28 V AC / 9.5 - 35 V AC
Rated frequency	50/60 Hz
Nominal current	60 mA AC / 30 mA DC
Sound pressure (applies only to 1563 U)	70 dB / 1 m
Sound frequency (applies only to 1563 U)	2.3 kHz
Protection class	IP 20
Type of protection for device	SELV
Operating temperature range	5 ... 40 °C

5 Setup and function

5.1 Features of function and equipment

5.1.1 Busch Alarm signal insert 1563 U

For optical and acoustic alarm signalization. Type of signalling (call / alarm call, in accordance with DIN VDE 0834) selectable via internal jumper. Acoustic signalling via the internal jumper can be deactivated.

Alarm activation is triggered by applying the operating voltage.

Alarm signal:

- Acoustic and optical signal (according to DIN VDE 0834) in discontinuous change (switch-off function).
- Permanent acoustic and optical signal, or with interruption.

5.1.2 Light signal insert 1564 U

The insert serves for optical alarm / status signal. The light signal lights up at a permanent alarm. Alarm activation is triggered by applying the operating voltage.

Alarm signal:

- Permanent light signal.

5.2 Possible combinations

	Busch warning signal insert		Light signal insert
	 1563 U		
 1518 U	X		
 1511 U	X		
 1515 U-12	X		
 1531 U	X		
 1573 C-21x	X		
 1573 CN-84	X		
		 1564 U	
 1518 U		X	
 1511 U		X	
 1515 U-12		X	
 1531 U		X	
 1573 C-21x		X	
 1573 CN-84		X	

6 Installation and electrical connection



Warning

Electric voltage!

Risk of death due to electrical voltage of 230 V during short-circuit in the low-voltage line.
– Low-voltage and 230 V lines must not be installed together in a flush-mounted socket!

6.1 Requirements for the electrician



Warning

Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
 1. Disconnect from power;
 2. Secure against being re-connected;
 3. Ensure there is no voltage;
 4. Connect to earth and short-circuit;
 5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the supply network type (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).

6.2 Electrical connection

Circuit diagrams

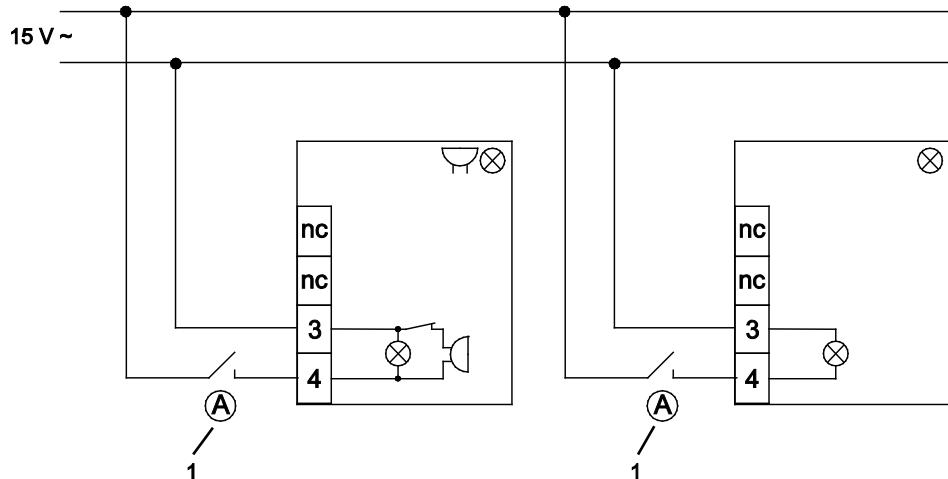


Fig. 1: Circuit diagrams for Busch-Alarm signal insert and light signal insert

1 NO contact for alarm activation

Terminal assignment

Busch-Alarm signal insert 1563 U / light signal insert 1564 U

Terminal designation	Assignment
nc	Not occupied
3	Triggering the optical and acoustic alarm signal, 15 V AC for alarm activation
4	

6.3 Mounting the device insert

1. Mount the devices in a flush-mounted box according to DIN 049073-1.
2. Fix the devices in the flush-mounted box with screws.
3. Mount the elements of the cover plate in the sequence shown in the illustration.

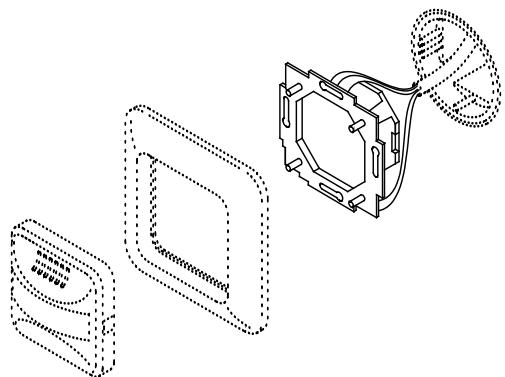


Fig 2: Overview of installation

6.4 Setting acoustic signalling with jumper (applies only to 1563 U)

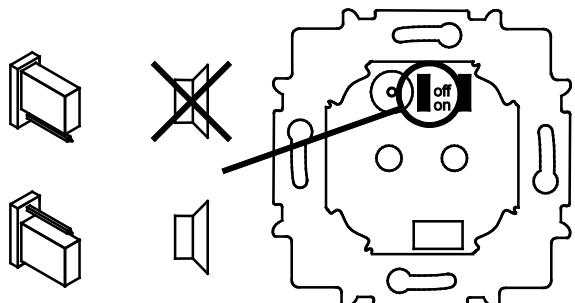


Fig. 3: 1563 U Busch-Alarm signal insert

Position	Acoustic signaling
Jumper top	Acoustic signalling off
Jumper bottom	Acoustic signaling on

6.5 Setting signal sequence with jumper (applies only to 1563 U)

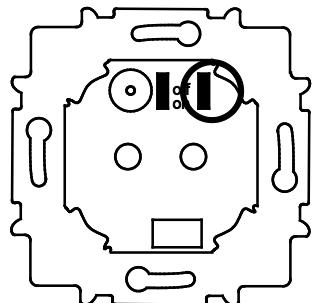


Fig. 4: 1563 U Busch-Alarm signal insert

Position	Signal sequence
Jumper bottom	  1 sec 15 sec   ON perman
Jumper top	  0,3 sec 0,3 sec   0,3 sec 0,3 sec

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Busch-Infoline®

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